

UiPath Automation Developer Training

Course Description:

This comprehensive UiPath training program is designed to equip participants with the skills and knowledge required to become proficient in UiPath and Robotic Process Automation (RPA). The course covers essential topics from beginner to advanced levels, including data manipulation, UI automation, debugging, error handling, email and PDF automation, and integration with UiPath Orchestrator and AI Center. This training prepares participants for the UiPath Automation Developer Associate (ADAv1), UiPath Professional Automation Developer (ADPv1), and UiPath Hyper Automation certifications.

Audience Profile:

- Aspiring RPA developers
- IT professionals looking to automate business processes
- Software developers and testers
- Business analysts and project managers
- Anyone interested in learning UiPath and RPA technologies

Prerequisites:

- Basic understanding of programming concepts
- Familiarity with any programming language (preferred but not mandatory)
- Basic knowledge of software development lifecycle

Course Objectives:

- Understand the fundamentals of UiPath and RPA
- Perform data manipulation and UI automation tasks
- Implement debugging and error handling techniques
- Automate email and PDF processing
- Integrate UiPath workflows with Orchestrator
- Utilize AI capabilities in UiPath for intelligent automation

- Manage and deploy AI models in UiPath AI Center

Module-wise Table of Contents:

UiPath Automation Developer Associate (ADAv1)

Module 1: Introduction to UiPath and Studio

- Introduction to UiPath and Robotic Process Automation (RPA)
- Setting Up UiPath Studio

Module 2: Data Manipulation

- Data Manipulation with Strings in Studio
- Data Manipulation with Lists and Dictionaries in Studio

Module 3: UI Automation

- UI Automation Synchronization with Studio
- UI Automation Descriptors in Studio
- Selectors in Studio Deep Dive

Module 4: Debugging and Error Handling

- Debugging in Studio
- Error and Exception Handling in Studio

Module 5: File and Data Handling

- Working with Local Files and Folders in Studio
- Data Manipulation with Data Tables in Studio

Module 6: Email and PDF Automation

- Email Automation with Studio
- PDF Automation with Studio

Module 7: Logging, Orchestrator, Integration, and Version Control

- Introduction to Logging in Studio
- Orchestrator Overview for Automation Developers
- Working with Orchestrator Resources
- UiPath Integration Service Overview
- Version Control Systems Integration in Studio

Module 8: Workflow Analyzer, RPA Testing, and Project Organization

- Workflow Analyzer in Studio
- RPA Testing with Studio
- Project Organization in Studio

UiPath Professional Automation Developer (ADPv1)

Module 1: State Machines in Studio

- State Machines in Studio

Module 2: Introduction to Robotic Enterprise Framework

- Introduction to Robotic Enterprise Framework

Module 3: Building a REFramework Project

- Building a REFramework Project with Orchestrator Queues
- Building a REFramework Project with Tabular Data
- Practice with REFramework

Module 4: Orchestrator Triggers, Advanced Data Manipulation, and UI Automation with Studio

- Orchestrator Triggers and Monitoring
- Advanced Data Manipulation with Studio
- Advanced UI Automation with Studio

Module 5: AI Computer Vision, Remote Debugging, Invoke Method, and Invoke Code in Studio

- AI Computer Vision with Studio
- Remote Debugging with Studio
- Invoke Method and Invoke Code in Studio

UiPath Hyper Automation: Master the Power of AI and RPA

Module 1: Document Understanding Overview and Introduction to UiPath AI Center

- Introduction, What is a Document, Document Structures
- How Document Understanding can benefit your business, OCR vs Document Understanding
- Introduction to UiPath AI Center, Licensing model of UiPath DU & AI Center

Module 2: Document Understanding Framework Components and Implementation Steps

- Components Overview, Packages to be Installed
- Implementation Steps: Taxonomy, Digitization Scanned and Native Documents, Classification
- Implementation Steps: Extraction, Validation, Export, Training Classifiers and Extractors
- Document Understanding Process: Studio Template
- Post-Processing Feedback Loop

Module 3: Taxonomy, Digitization, and Classification

- What is a Taxonomy, Taxonomy Extension Methods, Taxonomy Manager
- What is Digitization, When is OCR Used in Digitization
- What is Document Classification, Configure Classifiers Wizard

- When Classification Validation Should be Used, When Classification Training Should be Used
- Extraction, Validation, and Export: Extracting data from receipts, Extracting data from form
- Validate the results using Validation Station, Export the extraction results
- Document Understanding Service: Projects, Document types and Extractors, Forms AI, Document Manager Overview

Module 4: Introduction to Intelligent Process Automation and RPA with AI

- Understanding the role of AI in automation
- Benefits and applications of Intelligent Process Automation
- Integration of RPA and AI technologies
- How UiPath combines RPA and AI for enhanced automation

Module 5: UiPath AI Center: Overview and Setup

- Introduction to UiPath AI Center and its capabilities
- Overview of UiPath AI Center architecture
- Setting up AI Center and its prerequisites
- Enabling and configuring AI Center on the UiPath tenant

Module 6: Managing AI Models in UiPath AI Center

- Key components and functionalities of AI Center
- Integration of AI models with UiPath workflows
- Deploying, managing, and monitoring AI models in AI Center
- Analyzing the output of pre-built models in AI Center

Module 7: Advanced AI Capabilities in UiPath AI Center

- Object detection in AI Center: Creating, training, and deploying object detection models
- Sentiment analysis in AI Center: Training and deploying sentiment analysis models
- Exploring additional pre-built models available in UiPath AI Center and their use cases